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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Customer No. 23643  
Group: 1623  
Confirmation No.: 8656  
Application No.: 10/630,574  
Invention: CHIRAL NANOTUBES  
Inventor: Hicham Fenniri  
Filed: July 30, 2003  
Attorney Docket: 3220-72893  
Examiner: Ward, Paul V.

### Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on August 26, 2005

Garla L. Twyman  
(Signature)

Garla L. Twyman  
(Printed Name)

### AMENDMENT AND RESPONSE UNDER 37 C.F.R. §§ 1.121(c) and 1.111

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In response to the Office Action mailed June 27, 2005, Applicant respectfully requests entry of the following amendments to the claims and consideration of the accompanying remarks. No new matter is introduced by way of these amendments. The shortened statutory period for response is July 27, 2005. Applicant hereby requests a one-month extension of time under 35 C.F.R. 1.136(a), extending the due date for response to August 29, 2005. Included herewith is our Check No. 356142 in the amount of \$60.00, the fee set forth in 37 C.F.R. 1.17(a)(1) for a one-month extension under small-entity status. Applicants do not believe that any other fee is required in connection with the instant response. However, the Commissioner is hereby authorized to charge any additional fees due in connection with this response to Deposit Account 10-0435, with reference to our Matter No. 3220-72893.

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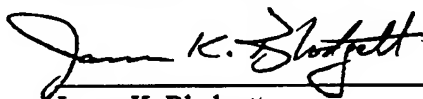
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Applicant respectfully points out that illustrative embodiments of chiral nanotubes, which are different species described in Applicant's specification, are those comprising a plurality of nanotube monomers having [6:6], [5:6], [6:5], and/or [5:5] bicyclic ring systems that contain multiple hydrogen bond donor sites and multiple hydrogen bond acceptor sites in specified locations. Further, Applicant again respectfully directs the Examiner's attention to MPEP § 806.04(e) Claims Restricted to Species, wherein it states that "[s]pecies are always the specifically different embodiments." In light thereof, Applicant respectfully submits that his previous election as species of a chiral nanotube according to claim 2, where the nanotube is a [6:6] bicyclic ring system, was fully responsive to the election requirement imposed by the Examiner.

However, in order to expedite prosecution, Applicant hereby elects as species a chiral nanotube according to claim 30, where the nanotube monomer is a pyrimidopyrimidine [6:6] bicyclic ring system containing the specific synthetic receptor corresponding to aminobenzo-18-crown-6. In light of the foregoing election, Applicants have amended claim 28, and added new claim 30, drawn to the elected species. Of the claims subject to an election of species, i.e., claims 1-29, and pursuant to MPEP § 809.02(a), claims 1-25 and 28-30 are readable on the elected species.

Respectfully submitted,  
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